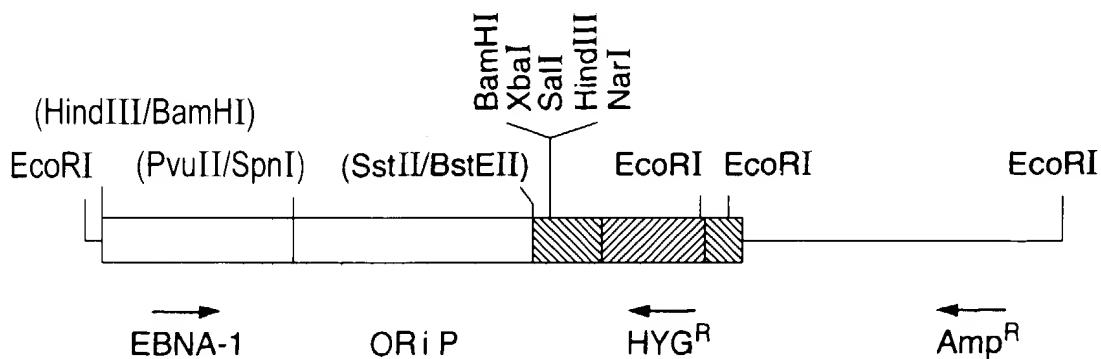


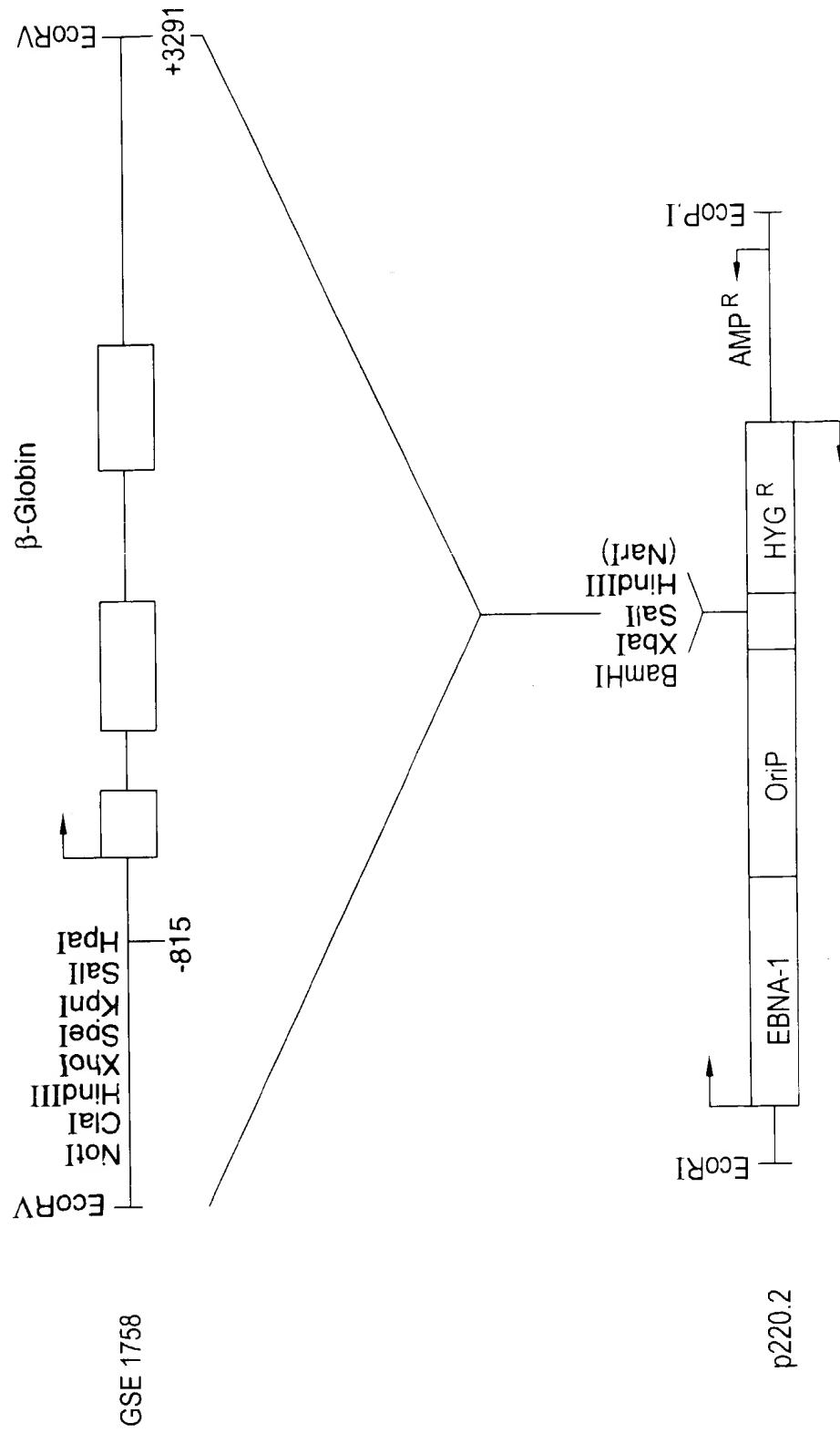
FIG. 1



bp

- 1-35 — pBR322
- 36-2646  EBV EBNA-1 107567-110176 (Baer et. al., Nature 310:1984)  
Bam HI-PvuII fragment. Bam HI site was blunt-end ligated to the HindIII site.
- 2647-4826  EBV OriP 7333-9516 SphI-SstII sites blunt-end ligated to the BstEII site. (Sugden et. al., MCB 5:410, 1985)
- 4827-5460  HSV TK regulatory region  
( McKnight, S.L., Nucleic Acids Res. 8, 5949, 1980)
- 6488-6747  PvuII fragment ligated into the poisonless pBR322 at NaeI site.  
These sites lost in cloning.
- 5461-6487  HPH gene (Gritz and Davies, Gene 25:179, 1983)  
Ban HI fragment blunt-end ligated into the SmaI and BglII sites in HSV TK sequences.
- 6748-8952 — pBR322 poisonless vector (deletion of 1.1 kb in pBR322)  
confers ampicillin resistance.  
(Lusky & Botchan , Nature 293:79, 1981)

**FIG. 2**



# FIG. 3

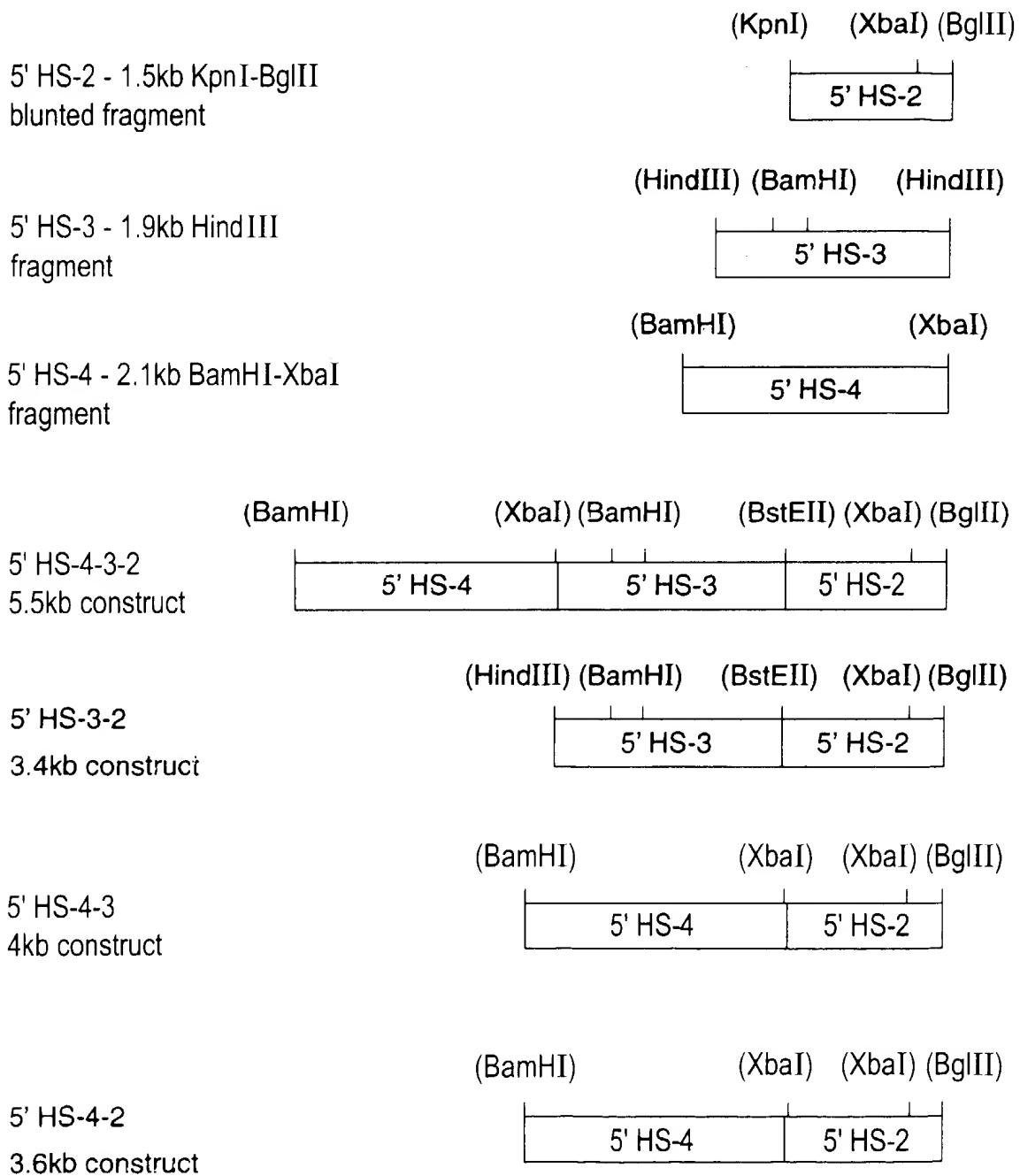


FIG. 4

S1 analysis of K562 cells containing human  $\beta$ -globin on an EBV based vector

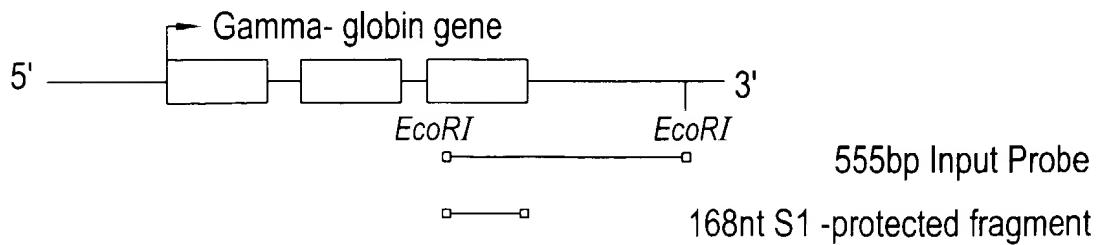
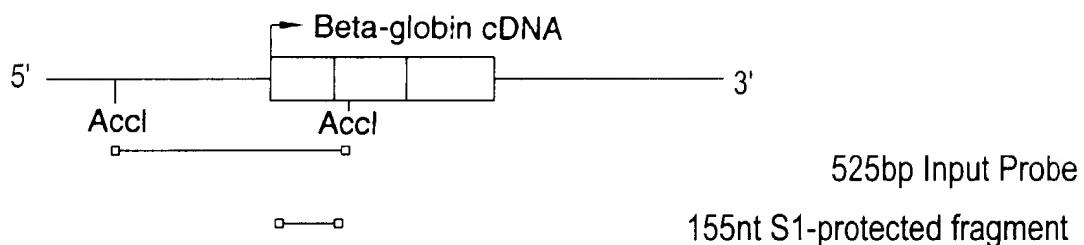
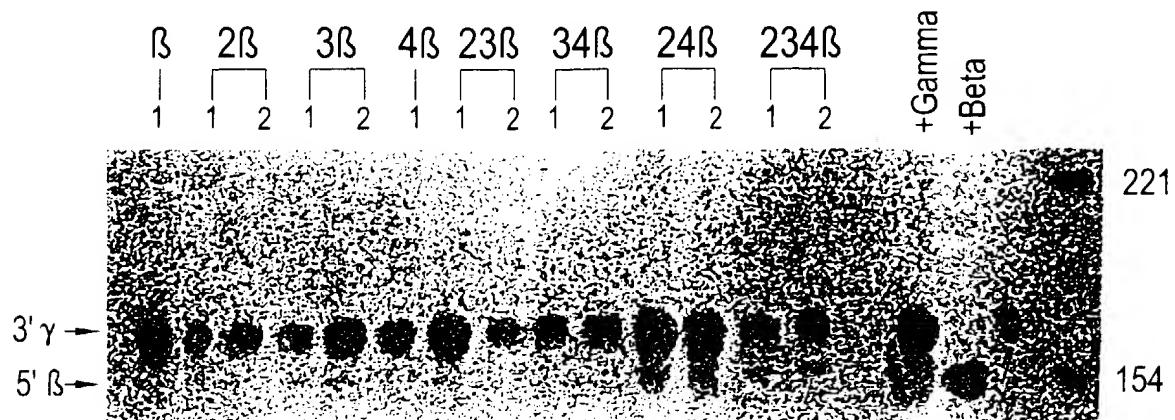


FIG. 5

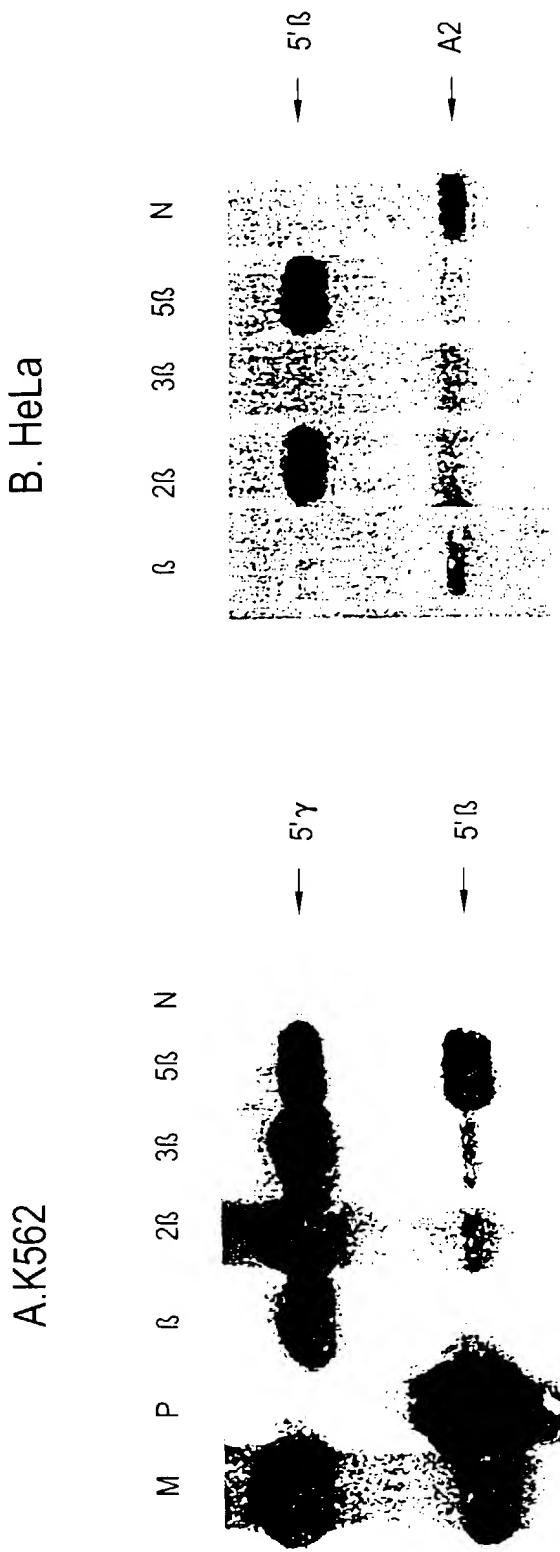


FIG. 6

